



UNITWIX™

Description:

UniTwix is an unusual thickener for petroleum oils, petrolatum, fatty alcohols, liquid waxes, etc., besides thickening the above liquids it confers its own characteristic dry lubrication on the final product. Thus, a mixture of heavy mineral oil plus UniTwix produces a soft gel or salve where the UniTwix is in low concentrations; where the UniTwix is more concentrated, the product is now a solid.

Made of long chain fatty acids, esterified with chains of equal length, UniTwix is a "wax", soluble in a wide range of organic compounds ranging from liquid fatty acids (saturated or unsaturated) to long chain organic acids.

Uses:

In compounding with UniTwix, a simple technique should be observed. The "oil" should be heated to about 60°C, and then the UniTwix added, not the reverse. For example, to form excellent lip pomade, petrolatum, 85%, is first melted to a liquid, then 15% (by weight) of UniTwix is added and stirred in until the complete product is melted. If this is poured into molds and cooled, the resultant product will be firm sticks. If a lipstick is desired, the pigment is first stirred into the molten petrolatum, until uniformly dispersed, and then the UniTwix added, although in a lower percentage depending on the quantity and nature of the pigment present. Increasing the percentage of UniTwix naturally stiffens the product. Into such mixes can be added a wide range of products instead of pigments: undecylenic acid, zinc benzoate, salicylate, phenols, or aluminum salts. The chemical stability of UniTwix combined with its physiological inertness make it ideally suitable for use in skin preparations, underarm deodorants, antifungal foot products, etc.

The combination of petrolatum, teflon powder and UniTwix makes excellent lubricants for use on the body or for industrial use. In the latter case, such water-resistant "greases" have many uses instead of lubricating oils for more "permanent" lubrication. A sample formulary is available upon request.

Nomenclature:

CAS: 94944-95-3, 555-43-1
INCI: Acetylated glycol stearate; Tristearin
EINECS (Europe): 305-673-7, 209-097-6
DSL/NDSL (Canada): 70380 4514
ENCS (Japan): JCIC 503100
AICS (Australia): All components comply

Typical Properties:

These values are typical properties only and not necessarily specifications. Specifications and test methods are available upon request.

Form	Waxy Solid
Color	Off-white to light yellow
Acid Value	6.8 – 13.6

Testing:

A summary of safety data based on tests performed by the raw material suppliers is available upon request

Derivation:

No animal derived ingredients are used in the manufacture of UniTwix. All raw materials used in UniTwix are of synthetic or vegetable origin.

Storage and Handling:

There are no special storage or handling requirements for UniTwix.

Availability:

UniTwix is available in 25-pound and 225-pound containers

Contact Guardian Laboratories for information about samples or sales.